Patent Claims

1. Method providing protection from unauthorized access to a field device connected over a data bus with a control unit, characterized in that stored in the field device is a security program, which performs an authorization examination in the case of an accessing of the field device over the data bus.

2. Method as claimed in claim 1, characterized in that the security program is part of a function block.

3. Method as claimed in claim 1, characterized in that the security program is part of firmware stored in the field device.

4. Method as claimed in one of the preceding claims, characterized in that the security program includes a security key, which is stored in the field device during configuration of the field device.

5. Method as claimed in one of the preceding claims, characterized in that the security key is an at least 128-bit code.

6. Method as claimed in one of the preceding claims, characterized in that the security key is created during installation of the field device.

7. Method as claimed in one of the preceding claims 1-5, characterized in that the security key is provided by the field device.

8. Method as claimed in one of the preceding claims, characterized in that the security key is regularly renewed.

9. Method as claimed in one of the preceding claims, characterized in that the security key is renewed hourly.

10. Method as claimed in one of the preceding claims, characterized in that the security key is stored only in the field device.

11. Method as claimed in one of the preceding claims, characterized in that the field devices are sensors, actuators, controllers, PLCs or gateways.